

Practitioner's Docket No. MPI95-015P1RCPA1DV1M

USSN 09/801,089

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. – 20. (Canceled)

21. (Currently Amended) A method to identify outside-in or inside-out signaling mediated by an integrin selected from the group consisting of $\beta 3$, $\beta 5$, $\beta 6$, $\beta 7$ and $\beta 8$ comprising the step of determining whether the cytoplasmic domain of said integrin is phosphorylated, wherein a phosphorylated cytoplasmic domain indicates integrin-mediated outside-in or inside-out signaling.

22. (Currently Amended) The method of claim 21 comprising the steps of;

- a) preparing an extract of a cell expressing an integrin of claim 21, and
- b) separating components of said extract, and
- c) ——analyzing said separated components extract to determine whether the tyrosine residues in the cytoplasmic domain of the β subunit of said integrin is are phosphorylated.

23. (Currently Amended) The method of claim 22 wherein an anti-phosphotyrosine antibody is used in the analysis step [[c]] b).

24. – 29. (Canceled)

30. (Previously Presented) The method of claim 22 wherein the extract is prepared with a high concentration of SDS.

31. (Currently Amended) The method of claim 22 wherein the extract is separated further comprising the step of electrophoresing the extract by SDS electrophoresis.

32. (Previously Presented) The method of claim 31 wherein the electrophoresis is 2D electrophoresis.

33. (Previously Presented) The method of claim 22 wherein the cell is a tumor cell.

34. (Previously Presented) The method of claim 33 wherein the tumor cell is a carcinoma cell.

35. (Withdrawn) The method of claim 22 wherein the cell is a platelet.

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36. (Withdrawn) The method of claim 22 wherein the cell is an immune system cell.

37. (Withdrawn) The method of claim 36 wherein the immune system cell is selected from the group consisting of: a lymphocyte, a leukocyte, a monocyte, a macrophage, a granulocyte, a natural killer cell, and a neutrophil.

38. (Withdrawn) The method of claim 22 wherein the cell is an epithelial cell.

39. (Withdrawn) The method of claim 38 wherein the epithelial cell is a keratinocyte.

40. (Withdrawn) The method of claim 22 wherein the cell is a fibroblast.

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